

Table A.7-7 Upper Animas Sampling Locations and Activities
September 2015

		Station Name	Description	Lat	Long	Flow	WQP	SW metal (total and dissolved metals)	Alk/Anions	Porewater (dissolved metals)	Sediment (Total Metals & Hg)	
Cement Creek	Mogul	CC02D	Mogul at Flume	37.9098	-107.6384	1	1	1	1			
	Gold Point	¹ CC02E	Gold Point	37.90823	-107.638423	1	1	1	1			
	Red & Bonita	CC03B	CC abv R&B	37.897778	-107.645925	1	1	1	1			
		CC03D	R&B @ culvert	37.8968	-107.6449	1	1	1	1			
	American	CC19	American tunnel	37.890981	-107.64844	1	1	1	1			
	Silver Ledge	¹ CC14	Silver Ledge	37.87673	-107.644329	1	1	1	1			
	Gold King	CC06	Gold King 7 Level	37.894505	-107.640824	1	1	1	1			
		CC06B	2nd portal Gold King	37.894731	-107.639	1	1	1	1			
	CC and NF confluence	CC03	D5 R&B, US of N Fork	37.895539	-107.647006	1	1	1	1			
		CC07	North Fork above CC	37.8951	-107.6468	1	1	1	1			
	CC and SF confluence	CC18B	CC abv Amer Tunnel	37.894229	-107.647255	1	1	1	1			
		CC18	On Cement Creek upstream of CC19, below mouth of the N Fork	37.891272	-107.649183	1	1	1	1			
	Cement Creek Mouth	Mineral Creek Mouth	CC17	South Fork above Cement Creek	37.8894	-107.6506	1	1	1	1		
CC21			Cement Creek below South Fork Cement Creek	37.889465	-107.654221	1	1	1	1			
CC48			Cement Creek Gauging Station	37.816274	-107.661599	1	1	1	1			
M34			Mineral Creek Gauge	37.8028	-107.6722	1	1	1	1			
Burrows Creek	Burrows Creek	A07	BC abv NF - Burrows Creek above Animas	37.945684	-107.575561	1	1	1	1		1	
		A07A	Abv Large Fault - Burrows Creek Above Fault	37.946768	-107.577851	1	1	1	1			
		A07B	Blw London Mine - Burrows Creek Below London Mine	37.947633	-107.583285	1	1	1	1		1	
		A07C	Abv London Mine - Burrows Gulch Above London Mine	37.947592	-107.587676	1	1	1	1		1	
		BG1A	Burrow Gulch Above Mining	37.942949	-107.592706	1	1	1	1		1	
		Waste Piles	DM3,4,5,6,7,8if needed									
		A01	Animas above Denver Lake	37.956067	-107.575928	1	1	1	1		1	
North Fork Animas	Lucky Jack	A02A	Animas above Lucky Jack Mine	37.954701	-107.57213	1	1	1	1		1	
		A02B	Lucky Jack Mine Drainage	37.954002	-107.57321	1	1	1	1			
		A02	Animas below Lucky Jack Mine	37.950179	-107.572776	1	1	1	1			
		Waste Piles										
	Sentinel Stations for NF Animas	A03	Horseshoe Creek	37.950175	-107.572091	1	1	1	1		1	
		A04	Animas above Horseshoe Creek	37.950861	-107.57345	1	1	1	1		1	
		A05	NF animas blw Horseshoe	37.949223	-107.57347	1	1	1	1		1	
² A06		Unnamed Tributary below Horseshoe Creek	37.947332	-107.573875	1	1	1	1				
Placer	Sound Democrat	DM26	Sound Democrat Mine Drainage	37.908431	-107.595128	1	1	1	1			
		DM25	Silver Queen Mine Drainage	37.907935	-107.596959	1	1	1	1			
	Gold Prince	A23A	Gold Prince adit	37.908745	-107.600887	1	1	1	1			
		A23	Placer Gulch below Gold Prince	37.910124	-107.599287	1	1	1	1			
	Sunbank	A21	Placer below Sunbank Adit	37.919066	-107.590108	1	1	1	1		1	
		¹ A21A	Comet Adit Lower	37.917106	-107.592415	1	1	1	1			
		A22	Placer above Sunbank Adit	37.915211	-107.592282	1	1	1	1		1	
		Waste Piles										
	Mountain Queen	A19	California Gulch above Mountain Queen	37.914256	-107.617238	1	1	1	1			
		A19A	Mountain Queen Adit Discharge	37.916352	-107.613587	1	1	1	1			
		A18	California Gulch below Mountain Queen	37.917416	-107.613125	1	1	1	1			
		Waste Piles	Upper, Lower, Evening Star									
	California Gulch	Placer/CG Confluence	A20	Placer Gulch	37.929405	-107.586954	1	1	1	1		1
			A15	Cal Gulch below Vermillion and abv road	37.931669	-107.590424	1	1	1	1		1
		Ida Mine	A17A	Consolidated discharge	37.931097	-107.604176	1	1	1	1		
CG3			California Gulch above DM11-16	37.929406	-107.604405							
Waste Piles						1	1	1	1			
Burrows Mine		A17B	Adit Discharge in California Gulch - Old A17b	37.932239	-107.60217	1	1	1	1			
		Waste Piles										
Indian Chief		DM28	Mine in Upper California Gulch Mine Drainage (Indian Chief)	37.919707	-107.613579	1	1	1	1			
		Waste Piles	DM28			1	1	1	1			
Vermillion Tunnel and Mine		A16	Vermillion Tunnel Mine Drainage	37.93391	-107.596642	1	1	1	1			
		CG6	California Gulch below Vermillion Mine Tributary	37.932227	-107.596756	1	1	1	1			
		CG5	Mine Drainage Trib - Vermillion Mine Discharge above the Road	37.934372	-107.600187	1	1	1	1			
		CG4	Abv both Mine and Tunnel - California Gulch below DM11-16	37.931368	-107.599004	1	1	1	1			
Bagley Mine/Ponds/Frisco Tunnel		Waste Piles	both Tunnel and Mine area									
		A13	CG abv both Frisco and Pond	37.930548	-107.584345	1	1	1	1		1	
		A11	CG blw Frisco and Pond - California Gulch below Bagley Mill Tailings	37.932789	-107.576914	1	1	1	1		1	
		A12	Frisco tunnel - Bagley Tunnel Mine Drainage	37.932042	-107.581749	1	1	1	1			
		CG9	Btw Frisco and Bagley Ponds - California Gulch below Bagley Adit Discharge	37.932068	-107.579373	1	1	1	1			
		CG12A	Bagley Pond Discharge	37.933	-107.579	1	1	1	1			
		Waste Piles	Mine and Pond Area									
Columbus Mine		CG11	CG abv Columbus - California Gulch above Columbus Mine	37.932525	-107.572532	1	1	1	1			
		A11A	Columbus Adit	37.932985	-107.571261	1	1	1	1			
		UA5	Animas abv Columbus - Animas below Mining Complex	37.936431	-107.571539	1	1	1	1		1	
		Waste Piles										
Confluence Animas/Cal Gulch		A14	Below Confluence	37.929393	-107.567538	1	1	1	1		1	
		A09	Animas above California Gulch	37.931813	-107.569842	1	1	1	1		1	
		A10	California Gulch Mouth - California Gulch above Animas Confluence	37.931745	-107.570268	1	1	1	1		1	
Animas Above Eureka	Tailings in floodplain	Tailings	Tailings above Grouse Gulch (#28)	-107.5587	37.9178							
	Cinnamon	A24	Cinnamon Creek	37.926707	-107.56161	1	1	1	1		1	
	Grouse	² A25	Grouse Gulch	37.917869	-107.552321	1	1	1	1			
	Picayne	² A26	Picayne Gulch	37.91139	-107.555845	1	1	1	1		1	
	Treasure Mtn Mine	TM1	Treasure Mountain Adit (New Station)	37.913533	-107.568751	1	1	1	1			
		Waste Piles										
	Silver Wing Burns Gulch	UA8	Animas above Burns Gulch	37.905867	-107.556755	1	1	1	1			
		A27	Burns Gulch	37.905521	-107.556201	1	1	1	1			
		A28	Animas below Burns Gulch	37.9046	-107.556673	1	1	1	1		1	
		A29	Silverwing	37.903683	-107.555496	1	1	1	1			
		A30	blw Burns and SilverWing	37.903039	-107.556737	1	1	1	1		1	
		Waste Piles	Silver Wing (Mill area and Mine)									
	Niagara Trib	² A31	Animas above Niagara	37.885353	-107.562481	1	1	1	1		1	
		² A32	Niagara Gulch	37.882931	-107.563434	1	1	1	1		1	
Eureka Gulch	Conduence EG and South Fork	A36	South Fork above Eureka Gulch	37.88293	-107.592597	1	1	1	1		1	
		A37	Eureka Gulch above South Fork	37.884834	-107.591341	1	1	1	1		1	
		EG9	Downstream	37.883034	-107.586507	1	1	1	1		1	
		DM34	Midway Mine Drainage	37.885122	-107.589875	1	1	1	1			
	Terry Tunnel	A38	Terry Tunnel	37.892756	-107.603386	1	1	1	1			
		A39	Eureka above Terry Tunnel	37.892522	-107.605327	1	1	1	1			
		EG6	Eureka Gulch below Terry Tunnel	37.892081	-107.600552	1	1	1	1		1	
		MC0	Mouth of McCarty	37.892	-107.6043	1	1	1	1			
	Bavarian	DM33	Bavarian Mine Drainage	37.891604	-107.606477	1	1	1	1			
		EG3A	Blw headwaters confluence. Flows into stope and daylights out of Ben Franklin Aditv(DM32)	37.894966	-107.60871	1	1	1	1		1	
		DM32	Ben Franklin Prospect Draining Mine	37.894813	-107.608986	1	1	1	1			
		EG5	Eureka Gulch below Ben Franklin Mine	37.894152	-107.606448	1	1	1	1		1	
	Ben Franklin	ARD1	Drainage of BF waste pile	37.893821	-107.606795	1	1	1	1			
		Waste Pile										
		EG2A	Eureka Gulch above Sunnyside Mine	37.898086	-107.610996	1	1	1	1		1	
	Sunnyside Mine	EG4	Eureka Gulch below Lake Emma/Sunnyside Confluence	37.895689	-107.609867	1	1	1	1			
		Waste Pile	check if still there									
	Clipper	EG1	Eureka Gulch Headwaters above the Clipper	37.8946	-107.613838	1	1	1	1		1	
EG3		Eureka Gulch Headwaters above confluence	37.895311	-107.610435	1	1	1	1		1		
Waste pile												
Ransom		DM69	Ransom Mine Discharge	37.882821	-107.577167	1	1	1	1			
Emma	EG2	Eureka Gulch below Lake Emma	37.897826	-107.61335	1	1	1	1		1		
EG/UA confluence	EG/UA confluence	³ A33	Animas above Eureka	37.881735	-107.564966	1	1	1	1		1	
		² A34	Eureka Gulch above Animas	37.87948	-107.567451	1	1	1	1		1	
		A35	Animas below Eureka	37.875752	-107.566027	1						

Figure A.7-1
Upper Animas Mining District
Silverton and Mayflower Mill Area

- Sample Locations
- 🏭 Smelter Locations
- ⛏ Mill Locations
- ▴ Mine Locations
- ~~~~~ Rivers and Streams

Map Date: March 20, 2015

Data Sources:
Sample Locations: U.S. EPA (2015)
Rivers and Streams: CDOW (2004)
Smelter, Mine, & Mill Locations: USGS (2000)
Image: Microsoft Bing web service (2015)
Map Projection: UTM Zone 13 N, NAD83, Meters

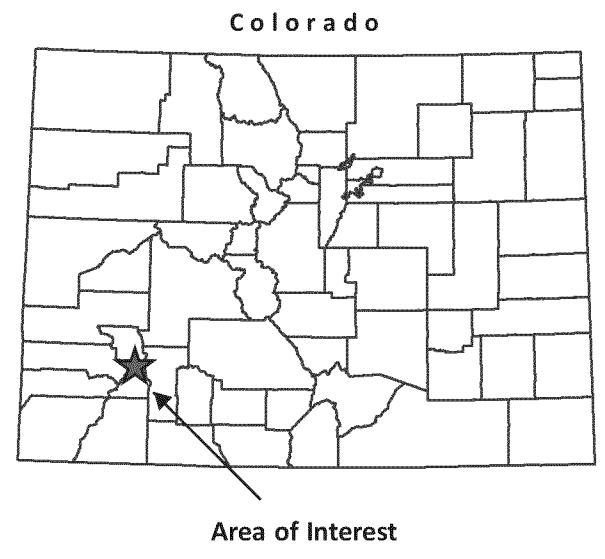
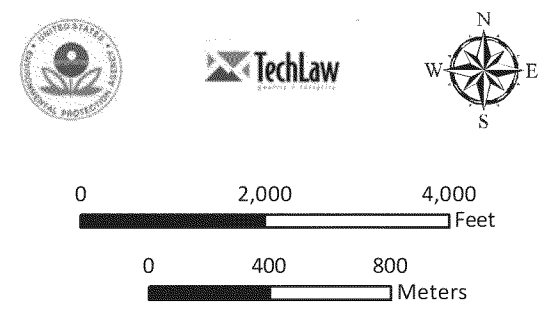




Figure A.7-2
Upper Animas Mining District
Upper Animas Eureka and Howardsville Area

- Sample Locations
- Smelter Locations
- Mill Locations
- Mine Locations
- ~ Rivers and Streams

Map Date: April 8, 2015

Data Sources:
Sample Locations: U.S. EPA (2015)
Rivers and Streams: CDOW (2004)
Smelter, Mine & Mill Locations: USGS (2000)
Image: Microsoft Bing web service (2015)
Map Projection: UTM Zone 13 N, NAD83, Meters

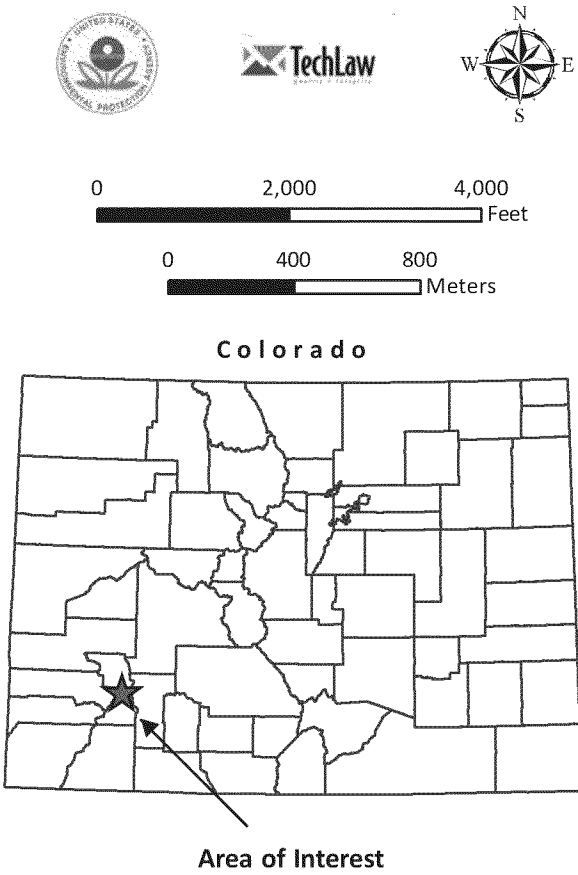


Figure A.7-3
Upper Animas Mining District
Upper Animas Headwaters Area



- Sample Locations
- ⚙ Smelter Locations
- ⚙ Mill Locations
- ▣ Mine Locations
- ~ Rivers and Streams
- ▭ Counties

Map Date: April 8, 2015

Data Sources:
Sample Locations: U.S. EPA (2015)
Rivers and Streams: CDOW (2004)
Counties: U.S. Census Bureau (2010)
Smelter, Mine & Mill Locations: USGS (2000)
Image: Microsoft Bing web service (2015)
Map Projection: UTM Zone 13 N, NAD83, Meters

